

Product datasheet for **SC323068**

CYP24A1 (NM_001128915) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP24A1 (NM_001128915) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP24A1
Synonyms:	CP24; CYP24; HCAI; HCINF1; P450-CC24
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001128915, the custom clone sequence may differ by one or more nucleotides ATGAGCTCCCCATCAGCAAGAGCCGCTCGCTTGCCGCCTTCTGCAGCAGCTGCGCAGT CCGAGGCAGCCCCGAGACTGGTGACATCTACGGCGTACACGTCCCCTCAGCCGCGAGAG GTGCCAGTCTGCCGCTGACAGCTGGTGGCGAGACTCAGAACGCGGCCGCCCTGCCGGGC CCCACCAGCTGGCCACTGCTGGGCAGCCTGCTGCAGATTCTTGAAAGGGGTCTCAAG AAACAGCACGACACCCTGGTGGAGTACCACAAGAAGTATGGCAAGATTTCCGCATGAAG TTGGGTTCTTTGAGTCGGTGCACCTGGGCTCGCCATGCCTGCTGGAAGCGCTGTACCGC ACCGAGAGCGCGTACCCGACGGCTGGAGATCAAACCGTGAAGGCCTATCGCGACTAC CGCAAAGAAGGCTACGGGCTGCTGATCCTGGAAGGGGAAGACTGGCAGCGGGTCCGGAGT GCCTTTCAAAGAACTAATGAAACCAGGGGAAGTGATGAAGCTGGACAACAAAATCAAT GAGGTCTTGCCGATTTATGGGCAGAATAGATGAGCTCTGTGATGAAAGAGGCCACGTT GAAGACTTGACAGCGAACTGAACAAATGGTCGTTTGAAGTATCTGCCTCGTGTGTAT GAGAAGAGATTTGGGCTTCTCCAGAAGAATGCAGGGGATGAAGCTGTGAACCTTCATCATG GCCATCAAACAATGATGAGCACGTTTGGGAGGATGATGGTCACTCCAGTCGAGCTGCAC AAGAGCCTCAACACCAAGTCTGGCAGGACCACACTCTGGCCTGGGACACCATTTTCAA TCAGTCAAAGCTTGATCGACAACCGTTAGAGAAGTATTCTCAGCAGCCTAGTGCAGAT TTCCTTTGTGACATTTATCACCAGAATCGGCTTTCAAAGAAAGAATTGTATGCTGCTGTC ACAGAGCTCCAGCTGGCTGCGGTGGAAACGACAGCAAACAGTCTAATGTGGATTCTCTAC AATTTATCCCGTAATCCCAAGTGAACAAAAGCTTCTTAAGGAAATCAAAGTGTATTA CCTGAGAATCAGGTGCCACGGGCAGAAGATTTGAGGAATATGCCGTATTTAAAAGCCTGT CTGAAAGAATCTATGAGGCTTACGCCAGTGTACCATTTACAACCTCGGACTCTTGACAAG GCAACAGTTCTGGGTGAATATGCTTTACCCAAAGGAATTGTCCGCAAATACGACATCCAG GCCACAGACAATGAGCCTGTTGAGATGCTACACTCAGGCACCCTGGTGCCAGCCGGGAA CTCCCCATCGCGTTTTGCCAGCGA
Restriction Sites:	Please inquire
ACCN:	NM_001128915



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001128915.1</u> , <u>NP_001122387.1</u>
RefSeq Size:	3089 bp
RefSeq ORF:	1347 bp
Locus ID:	1591
UniProt ID:	<u>Q07973</u>
Cytogenetics:	20q13.2
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This mitochondrial protein initiates the degradation of 1,25-dihydroxyvitamin D3, the physiologically active form of vitamin D3, by hydroxylation of the side chain. In regulating the level of vitamin D3, this enzyme plays a role in calcium homeostasis and the vitamin D endocrine system. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks a coding exon in the 3' region, but the reading frame is not changed, as compared to variant 1. The resulting isoform (2) lacks an internal segment, as compared to isoform 1.</p>